

**Notice of Allowability**

Application No.

09/845,734

Applicant(s)

DIXON ET AL.

Examiner

Art Unit

CHAMELI C. DAS

2192

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the reconsideration after final filed on 11/25/05.
2. ☒ The allowed claim(s) is/are 1-27, and 37-42 (newly numbered claims are 1-36).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)                                  |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date <u>12/14/05</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment  |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance                         |
|   | 9. <input type="checkbox"/> Other _____.   |

1. This action is in response to the reconsideration after final, filed on 11/25/05.
2. As per applicant's argument, the objection of the specification and the rejection of claims 1-45 under 35 U.S.C 112, first paragraph have been withdrawn.
3. Claims 28-36 have been canceled. (See the Examiner's amendment).
4. Claims 1-27, and 37-45 have been allowed.
5. Drawings filed on 8/20/01 have been accepted by the Examiner.

#### **EXAMINER'S AMENDMENT**

6. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Nathaniel Levin, applicant's attorney on 12/14/05.

The application has been amended as follows:

***In the claims:***

**(1) Claim 5 (Currently Amended)**

- at line 1, before "method", insert computer implemented

**(2) Delete claims 28-36.**

***REASON FOR ALLOWANCE***

7. The following is an examiner's statement of reason for allowance:

The cited prior art taken alone or in combination fail to teach, in combination with the other claimed limitations, a method for analyzing a program prior to runtime including: identifying prior to runtime a sequence of interactions of the program; for each command of the interaction, for each input attribute of the command, identifying prior to runtime an output attribute corresponding to the input attribute; and for each output attribute of the command, indicating prior to runtime that the output attribute is resolved, as recited in the independent claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

9. The prior art made or record and not relied upon is considered pertinent to applicant's disclosure.

TITLE: Method and apparatus for multiple application trace streams, US 6708173 B1

TITLE: Configurable branch prediction for a processor performing speculative execution, US 6671798 B1

TITLE: Multiprocessor system, US 4672535 A

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TITLE: Method for dynamically identifying pseudo-invariant instructions and their most common output values on frequently executing program paths, US 6968542 B2

TITLE: Indirect referencing in process control routines, US 6385496 B1

TITLE: Object code logic analysis and automated modification system and method, US 6071317 A

TITLE: Multiport memory bypass under software control, US 5313551 A

TITLE: Virtual software machine running multiple program modules in a single address space of a target computer, US 5365606 A

TITLE: Method for fast execution of translated binary code utilizing database cache for low-level code correspondence, US 6820255 B2.

TITLE: Concurrent Runtime Monitoring of Formally specified Programs, author: Sankar et al, IEEE, March, 1993.

TITLE: Incorporating Probabilistic Reasoning in a Reactive Program Debugging System, author: Burnell et al, IEEE, 1994.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chameli Das whose telephone number is 571-272-3696.

The examiner can normally be reached on Monday-Friday from 7:00 A.M. to 3:30 P.M.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Tuan Dam can be reached at 571-272-3695. The fax number for this group is (571) 273-8300.

An inquiry of general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is 571-272-2100.

*Chameli C. Das*  
**CHAMELI C. DAS**  
**PRIMARY EXAMINER**

*12/14/05*